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### 1 [Componential set-based analysis](#)



Cormac Flanagan, Matthias Felleisen

March 1999 ACM Transactions on Programming Languages and Systems  
(TOPLAS), Volume 21 Issue 2

**Publisher:** ACM

Full text available: Pdf (497.41 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 33, Citation Count: 11

Set-based analysis (SBA) produces good predictions about the behavior of functional and object-oriented programs. The analysis proceeds by inferring constraints that characterize the data flow relationships of the analyzed program. Experiences ...

Keyw ords: constraint-based analysis, program analysis, scheme, soft typing, static debugging

## 2 Semantics-based composition for aspect-oriented requirements engineering

 Ruzanna Chitchyan, Awais Rashid, Paul Rayson, Robert Waters  
March 2007 AOSD '07: Proceedings of the 6th international conference on Aspect-oriented software development

**Publisher:** ACM

Full text available:  Pdf (373.53 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 461, Citation Count: 2

In this paper, we discuss the limitations of the current syntactic composition mechanisms in aspect-oriented requirements engineering (AORE). We highlight that such composition mechanisms not only increase coupling between aspects and base concerns but ...

**Keyw ords:** aspect-oriented requirements engineering, expressive pointcuts, natural language processing, requirements composition

## 3 Emancipating instances from the tyranny of classes in information modeling

 Jeffrey Parsons, Yair Wand  
June 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 2

**Publisher:** ACM

Full text available:  Pdf (204.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 95, Citation Count: 8

Database design commonly assumes, explicitly or implicitly, that instances must belong to classes. This can be termed the assumption of inherent classification. We argue that the extent and complexity of problems in schema integration, ...

**Keyw ords:** classification, conceptual modeling, database design, interoperability, ontology, schema evolution, schema integration

## 4 Anatomy of a native XML base management system

T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann  
December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (300.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 145, Citation Count: 25

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management ...

Keywords: Database, XML

## 5 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp  
April ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2  
2004

**Publisher:** ACM

Full text available: Pdf (316.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 52, Downloads (12 Months): 497, Citation Count: 16

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, ...

Keywords: applications., definitions, foundations, taxonomy

## 6 Effective phrase prediction

Arnab Nandi, H. V. Jagadish  
September VLDB '07: Proceedings of the 33rd international conference on Very  
2007 large data bases

**Publisher:** VLDB Endowment

Full text available: Pdf (325.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 100, Citation Count: 0

Autocompletion is a widely deployed facility in systems that require user input. Having the system complete a partially typed "word" can save user time and effort. In this paper, we study the problem of autocompletion not just at the level of a single ...

## 7 Exploiting perception in high-fidelity virtual environments



### **Additional presentations from the 24th course are available on the citation page**

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez  
July SIGGRAPH '06: ACM SIGGRAPH 2006 Courses  
2006

**Publisher:** ACM

Additional Information: [full citation](#), [appendices](#)

Full text available: [Mov](#) (68:6 MIN), [Pdf](#) (5.07 MB)

[and supplements](#), [abstract](#),  
[references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 160, Downloads (12 Months): 1689, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keyw ords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

## 8 An overview of data warehousing and OLAP technology



Surajit Chaudhuri, Umeshwar Dayal  
March ACM SIGMOD Record, Volume 26 Issue 1  
1997

**Publisher:** ACM

Full text available: [Pdf](#) (101.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 143, Downloads (12 Months): 2081, Citation Count: 214


Data warehousing and on-line analytical processing (OLAP) are essential elements of decision support, which has increasingly become a focus of the database industry. Many commercial products and services are now available, and all of the principal database ...

## 9 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (172.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 92, Citation Count: 59

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access ...

**Keyw ords:** Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network


## 10 A framework for service-oriented computing with C and C++ Web service components



Robert A. Van Engelen

May 2008 ACM Transactions on Internet Technology (TOIT), Volume 8 Issue 3

**Publisher:** ACM

Full text available:  Pdf (1.08 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 70, Downloads (12 Months): 220, Citation Count: 0

Service-oriented architectures use loosely coupled software services to support the requirements of business processes and software users. Several software engineering challenges have to be overcome to expose legacy C and C++ applications and specialized system ...

**Keyw ords:** Service-oriented computing, Web services standards

## 11 [Probabilistic top-k and ranking-aggregate queries](#)



Mohamed A. Soliman, Ihab F. Ilyas, Kevin Chen--Chuan Chang

August ACM Transactions on Database Systems (TODS), Volume 33 Issue 3  
2008

**Publisher:** ACM

Full text available: Pdf (1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 14, Citation Count: 0

Ranking and aggregation queries are widely used in data exploration, data analysis, and decision-making scenarios. While most of the currently proposed ranking and aggregation techniques focus on deterministic data, several emerging applications involve ...

Keyw ords: Query processing, aggregation, probabilistic data, ranking, top-k

## 12 [XIRQL: An XML query language based on information retrieval concepts](#)



Norbert Fuhr, Kai Großjohann

April ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2  
2004

**Publisher:** ACM

Full text available: Pdf (281.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 168, Citation Count: 9

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL ...

Keyw ords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

## 13 [On incremental file system development](#)



Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright

May ACM Transactions on Storage (TOS), Volume 2 Issue 2  
2006

**Publisher:** ACM

Full text available: Pdf (260.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
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**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 237, Citation Count: 6

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we ...


**Keywords:** I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

#### 14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997      CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available:  Pdf (4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 715, Citation Count: 0


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

#### 15 An introduction to data warehousing: what are the implications for the network?

Katherine Jones

February 1998      International Journal of Network Management, Volume 8 Issue 1

**Publisher:** John Wiley & Sons, Inc.


Full text available:  Pdf (145.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 382, Citation Count: 0

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business. ...

## 16 Gui --- phooey!: the case for text input

 Max Van Kleek, Michael Bernstein, David R. Karger, mc schraefel  
October 2007 UI ST '07: Proceedings of the 20th annual ACM symposium on User interface software and technology

**Publisher:** ACM

Full text available:  [Mov](#) (2:27 MIN),  [Pdf](#) (1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 33, Downloads (12 Months): 411, Citation Count: 4

Information cannot be found if it is not recorded. Existing rich graphical application approaches interfere with user input in many ways, forcing complex interactions to enter simple information, requiring complex cognition to decide where the data should ...

Keyw ords: context awareness, input, lightweight input, personal information management, semi-structured information, text

## 17 Access path support for referential integrity in SQL2

Theo Härder, Joachim Reinert  
August 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 3

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (321.13 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 29, Citation Count: 2


The relational model of data incorporates fundamental assertions for entity integrity and referential integrity. Recently, these so-called relational invariants were more precisely specified by the new SQL2 standard. Accordingly, they have to be guaranteed ...

Keyw ords: Access path support, MATCH clause, Referential integrity, Relational databases, SQL2

## 18 Kalchas: a dynamic XML search engine

 Rasmus Kaae, Thanh-Duy Nguyen, Dennis Nørgaard, Albrecht Schmidt  
October 2005 CI KM '05: Proceedings of the 14th ACM international conference on Information and knowledge management

**Publisher:** ACM

Full text available:  [Pdf](#) (206.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 67, Citation Count: 0



This paper outlines the system architecture and the core data structures of Kalchas, a fulltext search engine for XML data with emphasis on dynamic indexing, and identifies features worth demonstrating. The concept of dynamic index implies that the aim ...

Keywords: fulltext search, index cascades, partitioned indexes

**19** [Communications of the ACM: Volume 51 Issue 8](#)



August 2008 issue Volume 51 Issue 8

**Publisher:** ACM

Full text available: [Digital Edition](#) , [Pdf](#) (6.85 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 8570, Downloads (12 Months): 2931, Citation Count: 0

**20** [Queue: Volume 6 Issue 3](#)



May 2008 issue Volume 6 Issue 3

**Publisher:** ACM

Full text available: [Digital Edition](#) , [Pdf](#) (5.56 MB)

Additional Information: [full citation](#)

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